	Application No.	Applicant(s)
	10/710,836	STEELE ET AL.
Notice of Allowability	Examiner	Art Unit .
	Meagan S. Walling	2863
The MAILING DATE of this communication appeals all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	pplication. If not included n will be mailed in due course. THIS
1. This communication is responsive to 8/05/04 application.		}
2. The allowed claim(s) is/are <u>1-24</u> .		.)
3. ☐ Acknowledgment is made of a claim for foreign priority unall ☐ All ☐ Some* ☐ None ☐ the: 1. ☐ Certified copies of the priority documents have ☐ Certified copies of the priority documents have ☐ Copies of the certified copies of the priority do ☐ International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give ☐ CORRECTED DRAWINGS (as "replacement sheets") must ☐ (a) ☐ including changes required by the Notice of Draftspers ☐ 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ☐ Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the composition of the deposition of the depo	e been received. The been received in Application No Cuments have been received in this of this communication to file a reply MENT of this application. The property of the attached EXAMINER The ses reason(s) why the oath or declarate The sest be submitted. The son's Patent Drawing Review (PTO) The sest of BIOLOGICAL MATERIAL The best of BIOLOGICAL MATERIAL	national stage application from the complying with the requirements R'S AMENDMENT or NOTICE OF ation is deficient. -948) attached Office action of ings in the front (not the back) of (d). must be submitted. Note the
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 10/27/04, 1/27/05, 10 11 0 ≤ 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Summary Paper No./Mail Da 7. ☑ Examiner's Amend	ate

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DETAILED ACTION

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Matthew Martin on November 9, 2005.

The application has been amended as follows:

In claim 1, please replace "The method of inspecting a sample's surface further comprising" with "The method of inspecting a sample's surface of Claim 1 further comprising".

In claims 8-11, please replace "The method of inspecting a sample's surface of Claim 8" with "The method of inspecting a sample's surface of Claim 7".

Allowable Subject Matter

Claims 1-24 are allowed.

The following is an examiner's statement of reasons for allowance:

The primary reason for the allowance of claim 1 is the inclusion of the limitation of providing a non-vibrating contact potential probe; scanning the sample's surface with the non-vibrating contact potential probe by causing relative motion between the non-vibrating contact potential probe and the sample's surface, measuring contact potential difference between the sample's surface and the non-contact potential probe; generating a first signal portion

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characteristic of a topographical feature of the sample's surface and further having a second signal portion representing chemical features of the sample's surface. It is this limitation in the claimed combination that has not been found, taught, or suggested by the prior art of record that makes these claims allowable.

The primary reason for the allowance of claim 20 is the inclusion of the limitation of a non-vibrating contact potential difference sensor; a mechanism for causing relative motion between the sample and the non-vibrating contact potential-difference sensor; a mechanism for measuring contact potential difference between the sample and the non-vibrating contact potential probe; a generated signal representing the contact potential difference; and a generated bias voltage applied to a portion of the system chosen from the group consisting of the sample, the non-vibrating contact potential probe, and combinations thereof. It is this limitation in the claimed combination that has not been found, taught, or suggested by the prior art of record that makes these claims allowable.

The primary reason for the allowance of claim 24 is the inclusion of the limitation of a non-vibrating contact potential difference sensor; a chuck for rotating the sample about a central axis; the chuck having a variable speed control mechanism for changing rotational velocity in proportion with the motion of the probe to provide the probe with substantially even data density; and a source of data representing a contact potential difference between the nonvibrating contact potential difference sensor and the surface of the sample. It is this limitation in the claimed combination that has not been found, taught, or suggested by the prior art of record that makes these claims allowable.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ma et al. (US 6,011,404) teaches a system for and method of determining a non-contact, near-surface generation and recombination lifetimes and near-surface doping of a semiconductor material.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Meagan S Walling whose telephone number is (571) 272-2283. The examiner can normally be reached on Monday through Friday 8:30 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent.

Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PMR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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